



Performance Data Sheet

AWA9513ZXD

General Information

Model	AWA9513ZXD	Refrigerant	R-404A
Test Condition	ARI	Performance Test Voltage	230V ~ 60HZ
Return Gas	4.4°C (40°F) RETURN GAS	Motor Type	CSR

Performance Information

Evap Temp (°F)	Condensing Temperature (°F)							
		80	90	100	110	120	130	140
0	Btu/h	12900	11500	10100	8650	7220	5790	4360
	Watts	1750	1740	1740	1730	1720	1720	1710
	Amps	8.87	8.80	8.73	8.65	8.56	8.47	8.36
	Lb/h	229	213	198	182	166	150	133
5	Btu/h	15000	13400	11800	10200	8580	6980	5390
	Watts	1830	1840	1850	1850	1860	1860	1860
	Amps	9.15	9.14	9.13	9.11	9.09	9.06	9.02
	Lb/h	263	247	230	214	197	180	163
10	Btu/h	17100	15300	13500	11800	9980	8200	6430
	Watts	1920	1940	1960	1980	1990	2010	2020
	Amps	9.41	9.47	9.52	9.57	9.61	9.64	9.66
	Lb/h	301	284	267	249	232	214	196
15	Btu/h	19300	17300	15400	13400	11400	9480	7520
	Watts	1990	2030	2060	2090	2120	2150	2180
	Amps	9.66	9.78	9.90	10.0	10.1	10.2	10.3
	Lb/h	343	325	307	288	270	251	233
20	Btu/h	21700	19500	17300	15200	13000	10800	8700
	Watts	2060	2110	2160	2210	2250	2290	2330
	Amps	9.90	10.1	10.3	10.4	10.6	10.8	10.9
	Lb/h	387	369	350	331	312	292	273
25	Btu/h	24200	21800	19400	17100	14700	12300	9980
	Watts	2120	2180	2250	2310	2370	2420	2480
	Amps	10.1	10.4	10.6	10.8	11.1	11.3	11.5
	Lb/h	436	416	396	377	357	337	316
30	Btu/h	26900	24300	21700	19100	16500	14000	11400
	Watts	2160	2240	2320	2400	2470	2540	2610
	Amps	10.3	10.6	10.9	11.2	11.5	11.8	12.1
	Lb/h	487	467	446	426	405	384	363

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.430711E+04	1.760607E+03	9.336838E+00	3.527990E+02
C2	6.928510E+02	-2.187726E+00	-4.141862E-02	7.805543E+00

C3	-1.420031E+02	-3.018076E-01	-6.367064E-03	-1.555993E+00
C4	2.182382E+00	-1.128863E-01	-2.640089E-04	7.147552E-02
C5	-3.740962E+00	2.535686E-01	1.225087E-03	-1.651373E-02
C6	-1.670092E-03	4.045631E-03	1.932730E-05	3.980194E-04
C7	4.267458E-02	-3.906426E-03	-4.474857E-06	-1.248906E-04
C8	-1.796202E-02	1.380468E-03	8.544028E-07	2.864537E-05
C9	1.911187E-03	-1.014616E-04	9.715002E-08	1.115826E-06
C10	-1.388281E-05	-3.361855E-05	-1.681291E-07	-3.452919E-06

$$\text{Value} = C1 + C2 * \text{Te} + C4 * \text{Te}^2 + C7 * \text{Te}^3 + (C3 + C5 * \text{Te} + C8 * \text{Te}^2) * \text{Tc} + (C6 + C9 * \text{Te}) * \text{Tc}^2 + C10 * \text{Tc}^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature



Performance Data Sheet

AWA9513ZXD

General Information

Model	AWA9513ZXD	Refrigerant	R-404A
Test Condition	ARI	Performance Test Voltage	230V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	Motor Type	CSR

Performance Information

Evap Temp (°F)	Condensing Temperature (°F)							
		80	90	100	110	120	130	140
20	Btu/h	22400	20400	18300	16200	14200	12100	10000
	Watts	2100	2150	2210	2260	2320	2370	2430
	Amps	10.2	10.4	10.6	10.9	11.1	11.3	11.5
	Lb/h	364	347	331	314	298	281	264
25	Btu/h	25300	23000	20700	18400	16000	13700	11400
	Watts	2140	2220	2290	2360	2430	2500	2570
	Amps	10.4	10.7	11.0	11.3	11.6	11.9	12.2
	Lb/h	409	392	374	356	338	320	302
30	Btu/h	28300	25700	23100	20600	18000	15400	12900
	Watts	2180	2270	2360	2450	2540	2620	2710
	Amps	10.5	10.9	11.3	11.7	12.0	12.4	12.8
	Lb/h	459	440	422	403	384	365	345
35	Btu/h	31400	28600	25800	22900	20100	17300	14500
	Watts	2210	2320	2430	2530	2640	2740	2840
	Amps	10.6	11.1	11.6	12.0	12.5	12.9	13.3
	Lb/h	512	493	474	455	435	415	394
40	Btu/h	34700	31600	28500	25400	22300	19300	16200
	Watts	2230	2360	2480	2600	2730	2850	2970
	Amps	10.7	11.3	11.8	12.3	12.8	13.3	13.8
	Lb/h	569	550	530	510	490	469	447
45	Btu/h	38100	34700	31400	28100	24700	21400	18000
	Watts	2240	2390	2530	2670	2810	2950	3080
	Amps	10.7	11.3	12.0	12.6	13.2	13.7	14.3
	Lb/h	629	610	590	570	549	527	505
50	Btu/h	41700	38100	34400	30800	27200	23600	20000
	Watts	2240	2400	2560	2720	2880	3040	3190
	Amps	10.7	11.4	12.1	12.8	13.4	14.1	14.8
	Lb/h	692	673	653	633	612	590	567

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.057451E+04	1.898820E+03	9.229578E+00	3.273557E+02
C2	8.606849E+02	-1.052415E+01	-3.598763E-02	6.500490E+00

C3	-1.034946E+02	-8.518731E-01	-4.221003E-03	-1.249472E+00
C4	2.687926E+00	-1.466637E-01	-8.001720E-04	8.941896E-02
C5	-5.112244E+00	3.294105E-01	1.418070E-03	-1.913625E-02
C6	5.778057E-03	2.634301E-03	1.238355E-05	5.704425E-04
C7	7.405440E-03	-8.651995E-04	-5.242634E-06	-4.932258E-04
C8	-7.303162E-03	6.449097E-04	4.116923E-06	4.198609E-04
C9	2.208878E-03	-1.439113E-04	-9.869257E-07	-1.106102E-04
C10	-2.456003E-04	-1.108989E-05	-2.515909E-08	4.440035E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature